

AMENDMENTS TO THE SPECIFICATION:

Please amend the indicated paragraphs of the specification in accordance with the amendments indicated below.

Page 12, after the second full paragraph insert the following paragraphs:

Fig. 12 is a block diagram schematic of another embodiment of the unit body of the present invention.

Fig. 13 is a block diagram schematic of another embodiment of a mounting configuration of the unit body of the present invention.

Fig. 14 is a block diagram schematic of yet another embodiment of a mounting configuration of a tank of the present invention.

Fig. 15 is a block diagram schematic of yet another embodiment of the present invention including a control device.

Pages 22 and 23, paragraph bridging same:

As the sensor in such a case, in addition to the thermocouple for monitoring the temperature, sensors such as a pressure sensor, an optical sensor which detects suspended particles such as mist or dust, a vibration sensor which senses vibrations

caused by lubrication failure, and a sensor which senses AE (Acoustic Emission) generated in conjunction with a damage of bearing constituting members caused by lubrication failure are considered. The relationships between the measured values of the sensors and the lubrication condition may be previously obtained, and the pump may be controlled as necessary. Referring to Fig. 12, the unit body 7 optionally includes the sensor in the form of sensor 50 which detects a lubrication condition between opposed faces of raceway members 1(2), and the pump 10 is functionally controlled based on a detection output from the sensor 50.

Pages 23 and 24, paragraph bridging same:

As described above, according to the bearing device of the invention, in the bearing comprising the inner ring 1 and the outer ring 2 serving as ring-shape members, the rolling elements 3, the cage 4, and the seal rings 5, the unit body 7 including at least the battery 6, the pump 10, the lubricant storing tank 8, and the like is detachably attached to the vicinity of a shoulder portion of the outer circumferential face of the inner ring 1 or the inner circumferential face of the outer ring 2, or on the side face of the seal ring 5. That is, in the case where the inner ring 1 is to be rotated, the unit body 7 is detachably attached to the side of an end portion of the inner circumferential face of the outer ring 2. In the case where the outer ring 2 is to be rotated, the unit body 7 is detachably attached to the side of an end portion

of the outer circumferential face of the inner ring 1 as shown in Fig. 13. Alternatively, the unit body 7 may be detachably attached to the side face of the inner or outer circumference of the seal ring 5. Still further, the lubricant storing tank 8 is optionally detachably connected to an outside face of the seal ring 5 as represented in Fig. 14.

Pages 23 and 24, after paragraph bridging same, insert:

Referring to Fig. 15 another configuration of the present invention is represented in a schematic block diagram wherein the sensor 50 is a temperature sensor and is attached to a vicinity of raceway portions of either the inner or outer raceway members 1(2), and an amount of lubricant discharged by the pump 10 is controlled by a controlling device 55 based on a detection output of the temperature sensor 50.